PRO

POWERED MIXERS

PRODUCT SPECIFICATION SHEET

TYPE:
POWERED MIXERS

SAMSON

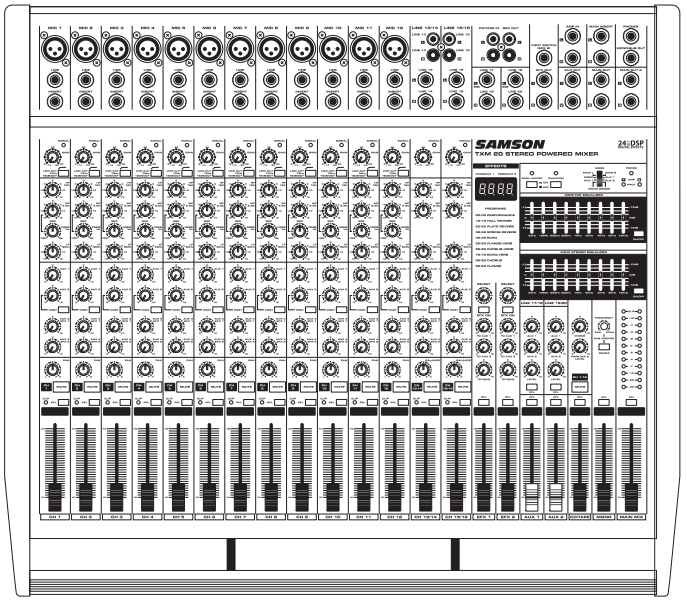
PRODUCT
TXM20

DESCRIPTION
20 CHANNEL 1000W POWERED MIXER

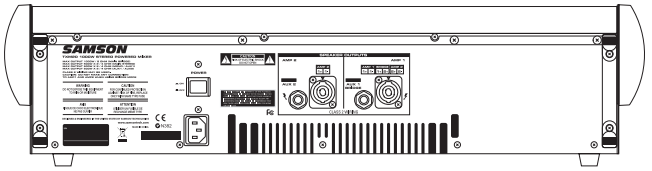
SERIES
TXM

CATEGORY
POWERED MIXERS

FRONT PANEL



BACK PANEL



GENERAL DESCRIPTION

The TXM20 is a twenty channel, powered mixer in an ergonomically correct, attractively appointed, tabletop enclosure. The TXM20 features a massive 1000-watt power amplifier, which is capable of running in 2 x 500-watt stereo, 500-watt Main plus 500-watt monitor, or 1000-watt bridge mono operating modes. To set the overall tonal response of your mix, the TXM20 features a 9-band Stereo Graphic Equalizer for the Main Left and Right outputs, plus a separate 9-band Graphic Equalizer for your monitor mix. Connecting all your microphones and instruments is simple, with twelve mic/line inputs plus four additional stereo channels. There are also dedicated stereo effects returns for the onboard digital effects. And the effects! You can add one of the TXM20's 100 dazzling digital studio quality effects, which include Delays, Chorus, Flanging, and of course, lush Reverbs to your vocals or instruments using the onboard 24-bit Multi-Effects Processor. It's easy to dial up your favorite effects preset with the large seven-segment LED display. Need more effects? The TXM20 employs two onboard 24-bit Multi-Effects Processors. Plus, the TXM20 has extensive auxiliary busses allowing you to have complex combinations of effects on all the channels, or two different effects on different groups of channels. The auxiliary buses are also extremely flexible when it comes to monitor mixes. The TXM20 will give you clean, clear sound reproduction thanks to the high quality, low noise microphone preamps, super clean, low impedance mix bus, two on-board 9-band graphic equalizers and the high output/low distortion power amplifier. The units are easy to transport with their compact size and oversized, sure-grip handle.

The super-tough steel construction ensures reliable, high quality sound from venue-to-venue and performance-to-performance day in, and night out. Optimized for live sound reinforcement and commercial installations, the TXM20 is an ideal mixer and power amp solution that offer plenty of inputs, sweet sounding effects and big sound in a compact package.

FEATURES

> The TXM20 is a twenty channel powered mixer in an ergonomically correct, table-top enclosure providing easy to see and easy to operate front panel controls. In addition, the TXM20 can be rack mounted using the included eleven-space rack mount kit.

continues»

©2006 Samson v1.0 5/06

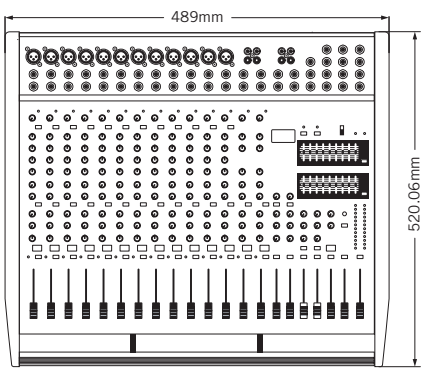
FEATURES (continued)

> 1000-watt power amplifier section, featuring three modes of operation; 2 x 500-watts Stereo Main, or 500-watt Mono Main/500-watt Monitor, or 1000-watts Bridged

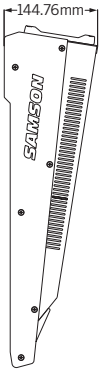
> Ample inputs, the TXM20 has twelve mic/line inputs plus four stereo line inputs.

> Two Built-in, 24-bit DSP (Digital Signal Processor) Multi-effects Processors with 100 selectable presets each offering dazzling studio quality effects including Reverb, Delay and Chorus and Flanging.

> The TXM20 mixer features high-quality, low-noise microphone pre-amplifiers that can accept signal from any standard microphone. With the mixer's XLR connectors, connecting standard low impedance dynamic mics is simple, and condenser microphones are connected easily using the available 48 Volt Phantom Power.



FRONT



SIDE

ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The Samson TXM20 shall be a 20 channel stereo powered mixer. There shall be 12 mic/line channels and 4 stereo channels. All mono channels shall have XLR inputs with phantom power, Peak LED's, 1/4 inch line inputs, insert points, trim controls, high pass filters, 3 band EQ with sweepable mids, 2 aux sends for moitors and 1 aux for the onboard DSP, pan, mute, PFL and 60mm faders. Stereo channels 13-16 shall have all the same controls except for XLR inputs, insert points, High Pass and sweepable mids. Channels 17-20 shall have aux sends 1 and 2, PFL, and level only. The onboard DSP's shall have 100 presets with aux 1 and 2 controls to add effects to monitors. The main section shall have Aux 1 and 2 send faders, CD/Tape input fader, Mono output/sub fader, and main level fader. There shall be a channel 1-12 mute switch. There shall be a subwoofer crossover in/out switch with frequency control for the mono/sub output. There shall be an 11 segment LED ladder for main level or AFL/PFL. There shall be a 9 band stereo graphic EQ for the main outputs and a 9 band graphic EQ for the monitors. There shall be a power amplifier capable of 2 x 500 watts @ 4 ohms or 1000 watts @ 8 ohms bridged mono.

TXM16 SPECIFICATIONS

Rated Output power ..... 2 X 500W at 4Ω @0.1% THD at 1KHz, 1 X 1000W at 8Ω Bridged

Frequency response..... 20Hz~20KHz+/-0.7dB@1W Output into 8Ω (AMP OUT) 20 Hz~20KHz+/-0.4@+4dB Output into 10kΩ (MAIN OUT, MAIN OUT 2, AUX OUT, AUX SEND, EFX OUT)

Total Harmonic Distortion..... Less than 0.06% @ 20Hz~20KHz, 75W output into4Ω (SPEAKER OUT); Less than 0.1%@20 Hz~20KHz+4dBu output into 10KΩ (MAIN OUT, MAIN OUT 2, AUX OUT, EFX OUT)

HUM & Noise ..... -121dB equivalent input noise

(Average, RS+150Ω)..... -100dB residual output noise (MAIN OUT, AUX OUT, EFX OUT)

(with 22Hz~22KHz BPF) ..... -79dB (MAIN OUT, AUX OUT) Master level control at maximum, all channel level control at minimum.
-79dB (EFX OUT) Master level control at maximum, all channel level controls at minimum.

Maximum Voltage Gain..... 67dB CH IN (MIC) to AMP OUT
63dB CH IN (MIC) to MAIN OUT, MONITOR OUT
54dB CH IN (MIC) to AUX 2 OUT
30dB CH IN (MIC) to REC OUT
32dB CH IN (LINE) to MAIN OUT, MONITOR OUT
26dB AUX IN to MAIN OUT
24dB TAPE IN to MAIN OUT

Crosstalk 1KHz ..... 70dB adjacent input, 70dB input to output

Input Channel Equalization
HIGH ..... 12KHz shelving (+/- 15dB MAX)
MID ..... variable 100 Hz to 8kHz peaking (+/- 15dB MAX)
LOW ..... 80Hz shelving (+/- 15dB MAX)

Meters..... 11 POINT LED METERS (-20, -15, -10, -7, -5,-3, 0, +1, +2, +4, +6dB)

Graphic Equalizer..... 9 bands (63, 125, 250, 500, 1K, 2K, 4K, 8K, 16KHz)

Internal DSP Effects ..... 24 BIT - 10 Presets each: 1-Performance; 2-Hall Reverb, 3-Plate Reverb; 4-Spring Reverb; 5-Echo; 6-Flange + Verb; 7-Chorus + Verb; 8-Echo + Verb; 9-Chorus; 10-Flange

Phantom Power..... +48V

CLIP Indicators ..... Turn on: THD> 0.1%

Foot Switch ..... DIGITAL EFFECT MUTE: ON/OFF

Power Requirement ..... 110V/60 Hz, 240V/50Hz (Country Specific)

Power Consumption..... 1900W, MAX.

Weight..... 50.6 lbs./23Kg

Dimensions (W x H x D) ..... 24 1/2" x 6 1/4" x 21" 622mm x 159mm x 533mm